

1. (Currently Amended) A wireless audio distribution system, comprising:

a wireless transmitter, responsive to a plurality of audio input channels, for transmitting ~~[[a]]~~ an encoded digital bitstream serially combining each of the audio input channel, the encoded digital bitstream further including control data disbursed therein;

a receiver, responsive to the transmitted encoded digital bitstream, for decoding and demultiplexing the digital bitstream, the receiver including:

a manual selector switch, ~~connected to the receiver device~~ for selecting one or more of the audio input channels to be reproduced ~~decoded and demultiplexed by the receiver from the~~ transmitted encoded digital bitstream; and

a sound producing device for selectively reproducing the one or more selected audio channels in accordance with the control data.

2. (Previously Presented) The invention of claim 1 further comprising:

an auto-off circuit automatically disconnecting power from the receiver when reproducible data from none of the audio input channels has been received for a predetermined time period.

3. (Currently Amended) The invention of claims 1 or 2, wherein the ~~sound producing device~~ receiver further comprises:

a comparator for comparing two segments in different fixed positions within the bitstream to detect an error event.

4. (Currently Amended) The invention of claim 3, wherein the ~~sound producing~~ receiver ~~device~~ further comprises:

a circuit for muting the selected audio input channels in response to a predetermined number of error events.

5. (Previously Presented) The invention of claim 4, wherein the encoded bitstream further comprises:

a header section; and

a body section including a plurality of fixed sequences of data representing audio from each of the audio input channels, the sequences separated by control data.

6. (Previously Presented) The invention of claim 5 wherein the header further comprises:

synchronization signals for synchronizing the decoding of the digital bitstream with the transmission of that bitstream.

7. (Previously Presented) The invention of claim 6 wherein the wireless audio distribution system is positioned in a vehicle including a headliner and the wireless transmitter is positioned behind the headliner.

8. (Previously Presented) The invention of claims 1 or 2, wherein the encoded bitstream further comprises:

a header section; and

a body section including a plurality of fixed sequences of data representing audio from each of the audio input channels, the sequences separated by control data.

9. (Previously Presented) The invention of claim 8 wherein the header further comprises:

synchronization signals for synchronizing the decoding of the digital bitstream with the transmission of that bitstream.

10. (Previously Presented) The invention of claim 9 wherein the wireless audio distribution system is positioned in a vehicle including a headliner and the wireless transmitter is positioned behind the headliner.

11. (Previously Presented) The invention of claims 1 or 2 wherein the wireless audio distribution system is positioned in a vehicle including a headliner and the wireless transmitter is positioned behind the headliner.